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Neutron Asymmetry Parameterization of a Dispersive Optical Model JONATHAN MUELLER, Department of Physics, Washington University, ROBERT CHARITY, LEE SOBOTKA, Department of Chemistry, Washington University, WILLEM DICKHOFF, Department of Physics, Washington University — We have recently applied a Dispersive Optical Model (DOM) analysis to a series of calcium isotopes. The proton spectroscopic factors as a function of asymmetry were determined, but the neutron dependence on asymmetry was not. Consideration of either Gamow-Teller or collective E2 strength yield different asymmetry dependencies (for neutrons) than the global OM parameterizations. Neutron elastic scattering n+48Ca can distinguish between these possibilities. With such data, extrapolation of neutron spectroscopic factors towards the n-drip line will be more robust.

Jonathan Mueller
Department of Physics, Washington University

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